

X Series



Tested in compliance with
AS/NZS 4020
for use in contact with safe drinking water



Model Number:
X50, X70, X90

YOUR ULTIMATE SOLUTION FOR DOMESTIC IRRIGATION

APPLICATION

Ideal for average homes with modern appliances to large double storey homes, domestic water supply, pressure boosting and automatic water transfer.

FEATURES & BENEFITS

- Manufactured from highest quality corrosion resistant materials
- Compact base mounting for quick and easy installation
- Fully adjustable pressure switch allows for installation adjustments
- TEFC motor-corrosion resistant and excludes dust and dirt
- Motor and pump designed for frequent starts
- Every tank and pump unit individually tested to guarantee reliable operation
- Low maintenance
- Easy to service if required

PUMP

- Single stage jet assisted centrifugal with closed vane impeller
- 303 stainless steel pump shaft
- Internal suction side check valve fitted

- Mechanical shaft seal
- O-ring casing seals
- Pressure switch control with adjustable cut-in and cut-out pressure

MOTOR

- Davey manufactured.
- 2 pole, 2850rpm, 50Hz.
- TEFC with IP55 enclosure.
- Class F insulation.
- Permanently split capacitor design.
- Double contact sealed C3-HTG rated ball bearings.
- Protected against both high operating temperatures and high current by a built-in automatically resetting thermal overload

TANK

- Captive heavy duty butyl diaphragm meets FDA (USA), Watermark (Aust), WRAS (UK) and CE requirements for potable water
- Fully lined water cavity

Home Pressure Systems

OPERATING LIMITS

Model	X50	X70	X90
Capacities to	50 lpm	70 lpm	90 lpm
Maximum total head	46m	48m	46m
Cut-in pressure (factory setting)	180kPa	210kPa	210kPa
Cut-out pressure (factory setting)	390kPa	420kPa	350kPa
Maximum liquid temperature	50°C		
Maximum ambient temperature	55°C		
Maximum suction lift	7m		
Inlet size (BSP)	1"F	1¼"F	1¼"F
Outlet size (BSP)	1"F	1"F	1"F

MATERIALS OF CONSTRUCTION

PART	MATERIAL
Impellers	Glass filled polycarbonate
Pump casing	Glass filled Noryl
Pump shaft sleeve	303 stainless steel
Internal check valve	Delrin
Internal check valve spring	Stainless spring steel
Jet and Venturi	Acetal
Inlet & outlet ports	Glass filled Noryl
Seal ring (stationary)	Carbon
Seal ring (rotating)	Ceramic
Seal spring	304 Stainless Steel
O-rings	Nitrile rubber
Tank shell	Steel
Tank finish	Polyurethane enamel
Diaphragm	Butyl rubber
Tank liner	Virgin polypropylene
Tank Inlet	Stainless steel
System base	Nitrile rubber

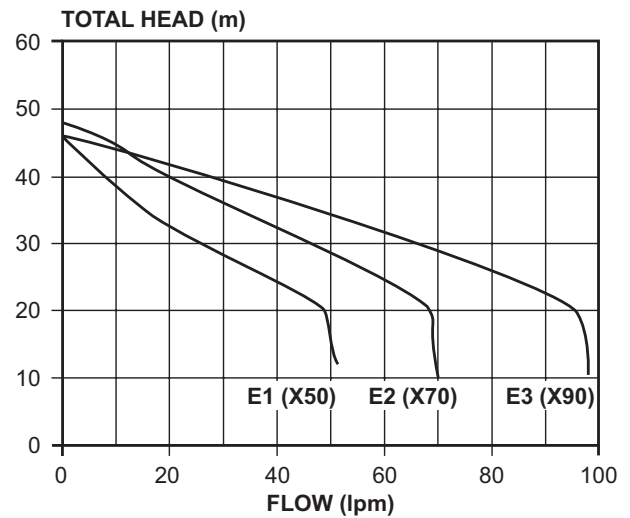
ELECTRICAL DATA

Model	X50	X70	X90
Supply voltage	220-240V		
Supply frequency	50Hz		
Full load current	3.6A	5.1A	6.6A
Locked rotor current	12A	18A	28A
Input power (P ₁)	0.84kW	1.15kW	1.4kW
Output power (P ₂)	0.58kW	0.8kW	1.1kW
Insulation class	Class F		
Starting	P.S.C.		
IP rating	IP55		

INSTALLATION AND PRIMING

- On installations with suction lifts over 1m, a good quality foot valve should be fitted. In this case the in-built check valve must be removed from the suction inlet before installing suction piping.
- The system is primed by filling the pump and suction line with water through the priming port, and replacing priming plug prior to switching on.

HYDRAULIC PERFORMANCE



DIMENSIONS (MM)

Model	A	B	C	D	E	F	Inlet BSP	Outlet BSP	Net Weight (kg)
X50	435	275	200	100	530	285	1"F	1"F	21.5
X70	460	275	200	100	530	285	1¼"F	1"F	23.0
X90	505	275	200	100	530	285	1¼"F	1"F	28.0

